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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/628,567	07/31/2000	Li Wen Liu	A-69366/MAK/LM	4144	
30636	7590 06/08/2006		EXAM	EXAMINER	
FAY KAPLUN & MARCIN, LLP			TRAIL, ALLYSON NEEL		
	DWAY, SUITE 702 K, NY 10038		ART UNIT	PAPER NUMBER	
	-,		2876		
			DATE MAILED: 06/08/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

			H 7
	Application No.	Applicant(s)	
	09/628,567	LIU ET AL.	
Office Action Summary	Examiner	Art Unit	
	Allyson N. Trail	2876	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet v	vith the correspondence address	;
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perions for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may be a search patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a not will apply and will expire SIX (6) MO ute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communi BANDONED (35 U.S.C. § 133).	·
Status			
1) Responsive to communication(s) filed on <u>15</u>	March 2006.		
· <u> </u>	nis action is non-final.		
3) Since this application is in condition for allow	•	• •	its is
closed in accordance with the practice unde	r Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) □ Claim(s) 16-26 and 28-32 is/are pending in the day of the above claim(s) is/are withd 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 16-26 and 28-32 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Exami 10)☑ The drawing(s) filed on 26 March 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11)☐ The oath or declaration is objected to by the	e: a)⊠ accepted or b)⊡ ot ne drawing(s) be held in abeya ection is required if the drawing	ince. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.1	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a life.	ents have been received. ents have been received in a riority documents have been eau (PCT Rule 17.2(a)).	Application No n received in this National Stage	Đ
Attachment(s)	Д П	Out(DTC 110)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 	

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DETAILED ACTION

Amendment

1. Receipt is acknowledged of the amendment filed March 15, 2006.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 16-18, 20-22, 24, 25, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Forsythe et al (6,540,137), hereinafter Forsyth in view of Rotman et al (2003/0018550), hereinafter Rotman.

With respect to claims 16, 17, 24, and 32 Forsythe teaches the following:

Figure 1 shows a cashier-side unit 76 and a customer-response unit (customer interface unit) 78, which includes a payment terminal. The customer-response unit includes a communication link (communication line) 156. (Col. 32, line 65).

Figure 21 shows the interactive customer interface terminal 78 including a display monitor 78a, which is provided to display retail information including product advertisements to the customer during operation of the checkout system 10.

For example, transaction information such as item price, item description, total amount of the transaction, instructions, etcetera is displayed to the customer via the display monitor 78a during operation of the checkout system 10 in either its assisted mode of operation or its self-service mode of operation. (See column 17, lines 14-22).

Shown in figure 1 is the personnel side 42. The personnel side includes a personnel interface 76. Items are scanned with scanner 26 and the monetary amount is displayed on the personnel interface.

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Explained below is the communication between the cashier-side unit and the customer-response unit.

"The processing unit 78b communicates with the personnel interface terminal 76 through a data communication line 156 (i.e. a data cable). The processing unit 78b generates output signals on the data communication line 156 which cause instructional messages and transaction information to be displayed on the display monitor 76a (see FIG. 23) of the personnel interface terminal 76. Moreover, data signals generated by the keypad 76b associated with the personnel interface terminal 76 are transmitted to the processing unit 78b via the communication line 156 when retail personnel touches a particular key associated with the keypad 76b." (Col. 32, line 64 – Col. 33, line 7).

The customer-response unit includes a payment terminal 44, which consists of a card reader, a coin and bill accepter, and a keypad. The customer chooses his preferred method of payment and completes the transaction.

With respect to claims 16 and 26, and 20 and 25, Forsythe teaches in column 17, lines 28-51, displaying customer-specific messages to the customer on the display monitor 78a at certain times during a checkout transaction. Customer-specific messages are retail messages that are customized for a given customer based on the purchasing habits or other information that is unique to the customer. For example, a customer-specific message may include a customer-specific advertisement, which

advertises a product that was purchased by the customer during a previous visit to the retailer's store. In another example a customer-specific message may include a customer-specific advertisement that advertises a product, which may be used in conjunction with a product that was previously scanned or otherwise entered into the

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checkout clerk scans a case of beer that is included in the customer's items for purchase, an advertisement relating to pretzels may be displayed to the customer on

checkout system 10 during the current checkout transaction. For example, if the

the display monitor 78b since pretzels are commonly consumed with beer.

This advertisement information taught by Forsythe is clearly content which is unrelated to data essential for completion of the transaction. When the customer views the advertisement on the display, for example for pretzels, the customer either responds by buying pretzels or is non-responsive by not buying the pretzels.

As explained in column 17, as well as column 34, line 19 – column 35, line 4, the checkout system 10 of the present invention is configured to retrieve information from a customer profile database, which contains such information (e.g. previous purchases) about each of the retailer's customers.

Additionally, the processing unit 78b communicates with the retailer's network 184 in order to access a customer profile database maintained in a network memory device such as a network mass storage device associated with a network central server. The customer profile database includes unique, customer-specific retail information associated with each of the retailer's customers. The customer's profile within the customer profile database may also include customer-specific retail

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information such as the customer's shopping or purchasing history. For example, a record of the items purchased during recent visits to the retailer's store may be included in the customer's profile. Moreover, a record may also be made in the customer's profile if the customer redeems a certain type of voucher or coupons or responds to a certain type of promotion.

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Contents of the customer profile database are utilized in order to generate customer-specific messages to the customer during a checkout transaction. In addition to transaction data, customer-specific advertisements may be displayed on a portion of the display monitor 78a in order to influence the customer to buy additional items. For example, the customer profile associated with a given customer may be initially retrieved from the customer profile database. Thereafter, the processing unit 78b causes customer-specific advertisements to be displayed on the display monitor 78b based on the contents of the customer's profile. For example, if the customer profile of a given customer indicates that the customer buys a certain type of beer during each of his or her visits to the retailer's store, the processing unit 78b may cause an advertisement for the certain type of beer to be displayed on the display monitor 78b in order to entice the customer to buy beer if the checkout clerk has not yet entered beer into the checkout system 10.

With respect to claim 21, Forsythe teaches figure 9B, which shows a signature capture device 102. The processing unit 78b (part of the customer-response unit) communicates with the signature capturing device.

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With respect to claim 22, Forsythe teaches in column 26, lines 54-58 that the processing unit 78b communicates with the electronic payment terminal in order to receive data read from the customer's card or codes such as PIN numbers which are input by the customer via use of the keypad.

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Forsythe's teachings above fail to teach transmitting the customer input (payment information) to a remote service provider for authorization.

With respect to claims 16 and 18, Rotman teaches figure 2B, which is an exemplary block diagram depicting an authorization and posting process, consistent with the principles of the present invention. During a transaction with a customer, merchant point-of-sale ("POS") device 222 sends an authorization request to credit card clearinghouse system 224. The authorization request from merchant POS device 222 will result in an authorization decision from authorization system 224 once the authorization system 224 obtains authorization from issuer mainframe 226, which is the authorization decision maker. Issuer mainframe 226 uses known methods to determine whether a transaction should be authorized, including making sure that the card is not over its limit, verifying billing address information, and referencing lists of card numbers corresponding to lost or stolen cards. (paragraph 0059).

In view of Rotman's teachings, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to transmit the payment received by Forsythe's payment terminal to a remote service provider for authorization. Although this step is not disclosed by Forsythe, all payment systems that use credit or debit cards check for authorization before fully completing the purchasing transaction.

One would be motivated to authorize the payment card in order to ensure that funds are available to cover the cost of the product being purchased.

4. Claims 19, 23, 26, and 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Forsythe in combination with Rotman and in further view of Smith et al (2003/0126020), hereinafter Smith.

Forsythe's teachings in combination with the teachings of Rotman are discussed above. These teachings include the limitations disclosed in claims 26 and 28-30. Forsythe additionally teaches printing a receipt (figure 14). The combination however fails to teach storing electronic receipts and also fails to teach the customer input being biometric data.

With respect to claims 19, 23, 26, and 31, Smith teaches in paragraph 0017, that typically, an electronic receipt will be generated by a vendor device at a point-of-sale. When a transaction takes place, an electronic receipt may be transmitted from the vendor device to a purchaser device where the receipt may be stored for further processing within the device or for further transmission to other devices and systems.

Smith further teaches in paragraph 0032 that some embodiments of WPD 2 may also comprise a biometric input device 10 to verify user identity. Biometric input device 10 may use thumb print analysis, retinal scan analysis or another identification method to identify the WPD user. Once the user is identified, user identity can be matched to account data to ensure that unauthorized users do not gain access to sensitive information or other user's accounts.

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In view of Smith's teachings, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to electronically store the receipts and additionally use biometric data to identify the customer. Forsythe teaches printing the receipt for the customers. The printed receipts are used in part for returns. One would be motivated to store all customer receipts in order to make customer returns easier if the printed receipt is lost. Additionally, Forsythe teaches using a PIN to ensure the authenticity of the customer. Using biometric data in addition to using a PIN would only further ensure the authenticity of the payment card owner.

Response to Arguments

5. Applicant's arguments, see pages 6-10, filed March 15, 2006, with respect to the rejections of claims 16-18, 20-22, 24, 25, and 32 under 35 U.S.C. 103(a) and claims 19, 23, 26, and 28-31 under 35 U.S.C. 103(a) have been fully considered but they are not persuasive. Applicants argue that Forsythe fails to suggest that the customer can respond to the advertisements. The examiner disagrees. As discussed above, various advertisements are displayed in the customer response unit. An example of an advertisement of pretzels is given. This advertisement is displayed because of one of two reasons: either a product that may compliment pretzels (such as beer) has already purchased by the customer or by reviewing the customer's profile, which indicates that the customer often purchases pretzels. It is disclosed by Forsythe that if pretzels have not already been purchased, the customer may desire to add pretzels to the items to be purchased. Clearly, if the customer decides to purchase pretzels, the customer has most definitely responded to the advertisement. Furthermore, if the customer does not

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decide to purchase the pretzels, no response is made (i.e. "non-response"). Simply by displaying the content on the customer response unit, is it obvious that a customer can respond to the content (by either purchasing the advertised product or not purchasing the product). The applicant further argues that Forsythe fails to teach collecting information including one of a customer response to the content and non-response to the content. Again, it is clear that if the customer decides to purchase the advertised product, the customer responds by choosing the product and information is collected when a product is chosen for purchase by scanning the product and storing the product information in the customer's profile database. This logic can be applied to the limitation of recording the customer responses to the advertisements and transmitting those responses to an advertisement server (i.e. the customer profile database) in order to collect information about the customer.

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Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to *Allyson N. Trail* whose telephone number is (571) 272-2406. The examiner can normally be reached between the hours of 7:30AM to 4:00PM Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee, can be reached on (571) 272-2398. The fax phone number for this Group is (703) 872-9306.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [allyson.trail@uspto.gov].

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All Internet e-mail communications will be made of record in the application file.

PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

STEVEN S. PAIK PRIMARY EXAMINER

Allyson N. Trail Patent Examiner Art Unit 2876 May 23, 2006